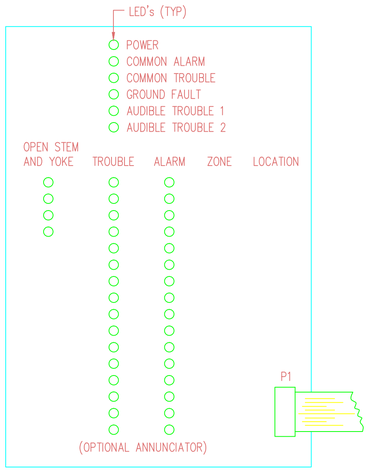
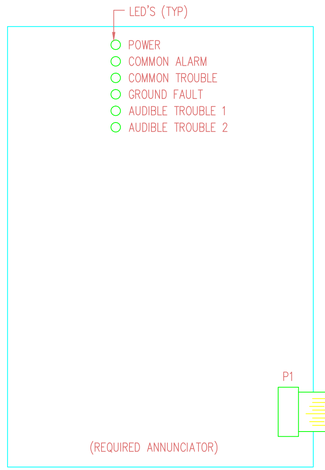


MODEL LA–16

CAUTION:

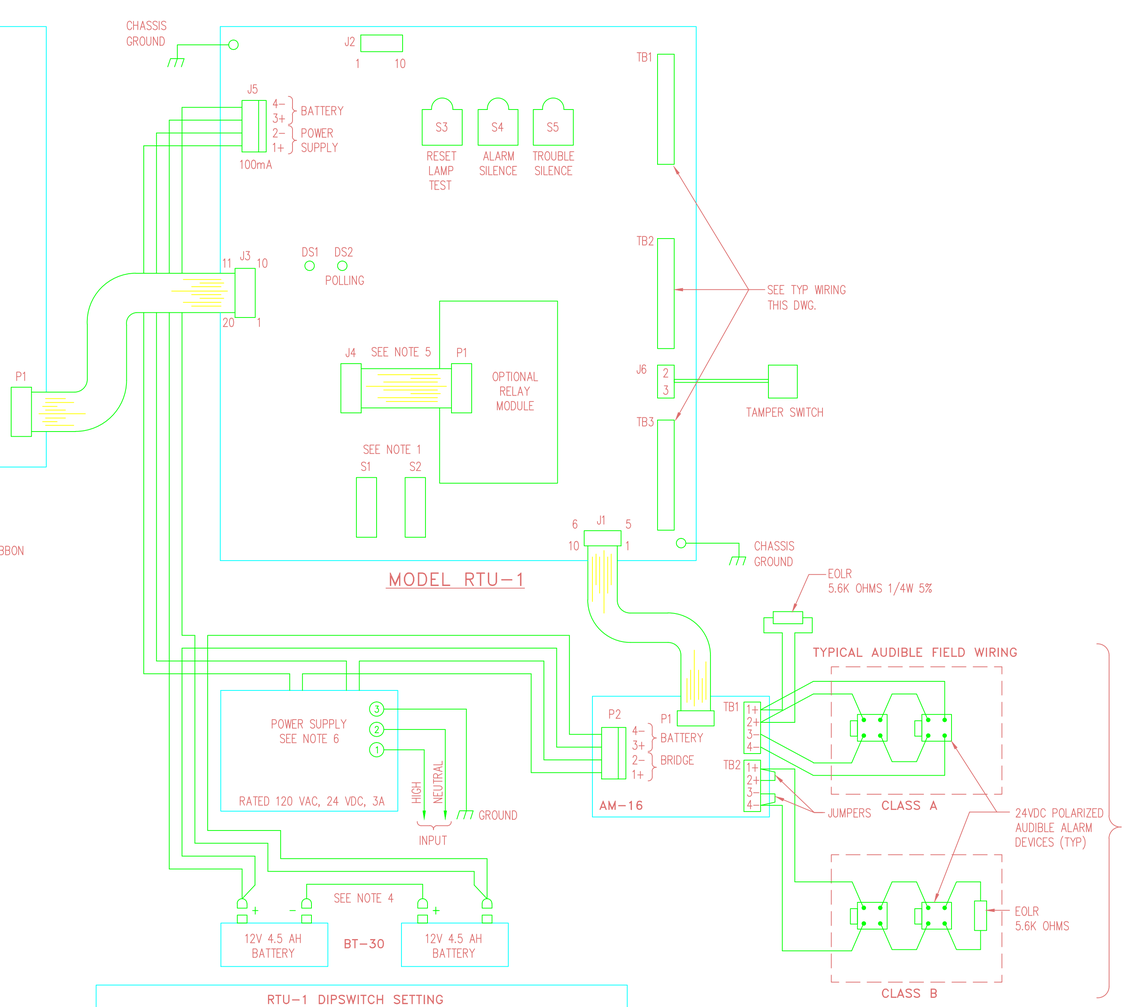
STANDBY BATTERIES ARE CAPABLE OF SUPPLYING VERY LARGE AMOUNTS OF CURRENT IF THEIR LEADS ARE SHORTED. THAT AMOUNT OF CURRENT COULD MELT AND DAMAGE THE INSULATION.



MODEL LA–6

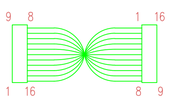
CAUTION:

MATCH ARROWS OF PC BOARD CONNECTOR WITH RIBBON CABLE CONNECTOR TO ENSURE PROPER POLARITY.



NOTES:

1. SEE MULTILARM VI OPERATION. AND MAINTENANCE MANUAL (P/N 315–084516) AND MX–316 OPERATION MANUAL (P/N 315 086393). FOR PROPER PROGRAMMING OF THE MX–316.
2. FOR STANDARD TWO–WIRE DATA COMMUNICATION (STYLE 1, 3 & 4) CONNECT WIRES TO TERMINALS L1 AND L2. LOCATED ON TB3. OF THE RTU–1. FOR FOUR–WIRE COMMUNICATION (STYLES 1, 2, 3, 4, 5, 6 & 7). CONNECT WIRES TO L1, L2, L3 AND L4 LOCATED ON TB3. ENSURING THAT PROPER POLARITY IS OBSERVED. REFER TO THE MANUALS DESCRIBED IN NO.1 FOR ADDITIONAL DETAILS.
3. TRANSMISSION LINES ARE POLARIZED AND ARE CONNECTED BETWEEN THE MX–316'S AND THE CENTRAL CONSOLE. USE MIN. 18 AWG SHIELDED TWISTED PAIRS. GROUND SHIELD AT ONE END ONLY. ALL WIRING MUST CONFORM TO LOCAL CODES AND TO THE AUTHORITY HAVING JURISDICTION.
4. BATTERY MAINTENANCE IS LIMITED TO REPLACEMENT AT INTERVALS NOT TO EXCEED 4 YEARS.
5. IF REM–8 IS USED. THE RIBBON CABLE MUST BE TWISTED SO THAT THE CORRECT PIN CONFIGURATION IS ACHIEVED IN ORDER TO PREVENT DAMAGE TO THE RAM–8 BOARD. ENSURE THAT PIN 1 ON J4 IS CONNECTED TO PIN 10F P1.



6. INTERNAL CIRCUIT DAMAGE MAY RESULT IN FIELD WIRING TERMINALS ARE ACCIDENTALLY SHORTED OR JUMPED TO POWER SUPPLY TERMINALS. INPUT TERMINALS 1 AND 2 ARE RATED 120 VAC. 2A MAX.
7. TOTAL SENSOR LINE RESISTANCE SHALL NOT EXCEED 270 OHMS. EACH CIRCUIT IS RATED 2.5 VDC. 1.1mA MAX.
8. ALL REMOTE MX–316 UNITS MUST BE PROGRAMMED BY A QUALIFIED TECHNICIAN.
9. AN END OF LINE RESISTOR (560 OHMS 1/4W) MUST BE PLACED ACROSS L3 AND L4 WHEN THEY ARE NOT BEING USED AS TRANSMISSION LINES. IF FOUR–WIRE COMMUNICATION IS USED. THE END OF LINE RESISTOR IS NOT USED.

RTU–1 DIPSWITCH SETTING

S1

- 8 (LEAST SIGNIFICANT BIT)
- 7
- 6
- 5
- 4
- 3 (MOST SIGNIFICANT BIT)

RTU–1 ADRESS 0–63

- 2 FUTURE
- 1 ON = EMULATE MX–203
  OFF = FUTURE SYSTEM

S2

- 8 ON = RTU–1 PROGRAM MODE SELECT
  OFF = NORMAL OPERATION
- 7 ZONE MAP
- 6 SEE NOTE S2 BELOW
- 5 ON = ZONES 1–4 CONTACT
  OFF = ZONES 1–4 OPEN STEM AND YOKE
- 4 ON = STANDBY BATTERY IN USE
  OFF = NO BATTERY
- 3 ON = AM–16 INSTALLED
  OFF = AM–16 NOT PRESENT
- 2 ON = ALL CONTACT ZONES ARE STYLE C
  OFF = STYLE A AND B
- 1 ON = ZONES 13–16 ARE SMOKE
  OFF = ZONES 13–16 ARE CONTACT

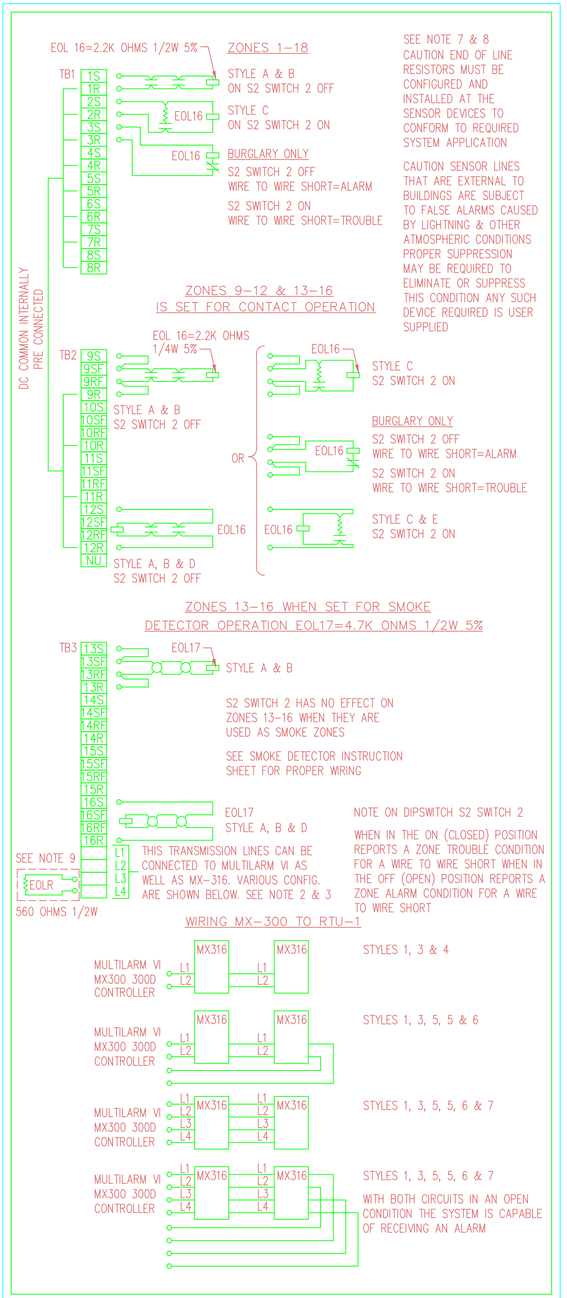
NOTE S2

SWITCHES	6	7	
SET 1	OFF	OFF	UNDEFINED
SET 2	OFF	ON	7 ALARMS, 7 TROUBLES, AC FAIL; ALL OTHER TROUBLES AND TAMPER
SET 3	ON	OFF	15 ALARMS, 1 TROUBLE
SET 4	ON	ON	CUSTOMIZE VIA FIELD PROGRAM ROUTINE

SET 2: ZONES 10, 11 & 12 ACTIVATE AUDIBLE 1, AND ZONES 13–16 ACTIVATE AUDIBLE 2

SET 3: ZONES 2–8 ACTIVATE AUDIBLE 1, AND ZONES 9–16 ACTIVATE AUDIBLE 2

MODEL MX–316 CONNECTION DIAGRAM



TYPICAL WIRING

REVISION NUMBER	DRAWN BY	CHECKED BY	APPR'D BY	DATE	REMARKS
A	LM		MCG	7/7/98	AUTOCAD CONVERSION

00
MX–316
TYPICAL WIRING

UNIVERSITY OF CALIFORNIA LAWRENCE BERKELEY LABORATORY
FACILITIES DEPARTMENT

DRAWN BY	L.REHBOCK	DATE 7/16/87
CHECKED BY	R.GRAZIER	6/20/88
APPROVED BY	BHS	6/20/88
CAD FILE PATH	_	
SCALE	_	
DRAWING NO.	4B00E267A	SHEET —
PROJECT NO.	_	_